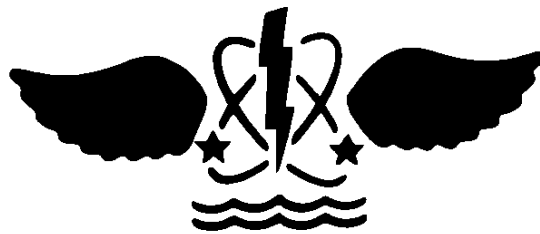


CHAPTER 12



NAVAL AIRCREWMEN (AW)

NAVPERS 18068-12G
CH-62

Updated: April 2015

TABLE OF CONTENTS
NAVAL AIRCREWMEN (MECHANICAL) (AWF)

SCOPE OF RATING	AW-3(F)
GENERAL INFORMATION	AW-4(F)
AIR WARFARE SYSTEMS ENGINEER	AW-5(F)
AIRCRAFT SYSTEM OPERATIONS	AW-5(F)
AIRCREW ADMINISTRATION	AW-6(F)
AIRCREW DUTIES	AW-6(F)
AIRCREW TRAINING	AW-7(F)
MAINTENANCE ADMINISTRATION	AW-7(F)
MAINTENANCE SUPPORT	AW-8(F)
OPERATIONS AND LOGISTICS	AW-8(F)
SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS	AW-9(F)
AIRCREW READINESS MANAGER (MECHANICAL)	AW-10(F)
AIRCREW ADMINISTRATION	AW-10(F)
AIRCREW DUTIES	AW-10(F)
AIRCREW TRAINING	AW-11(F)
OPERATIONS AND LOGISTICS	AW-11(F)
SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS	AW-11(F)

NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

NAVAL AIRCREWMEN (MECHANICAL) (AWF)

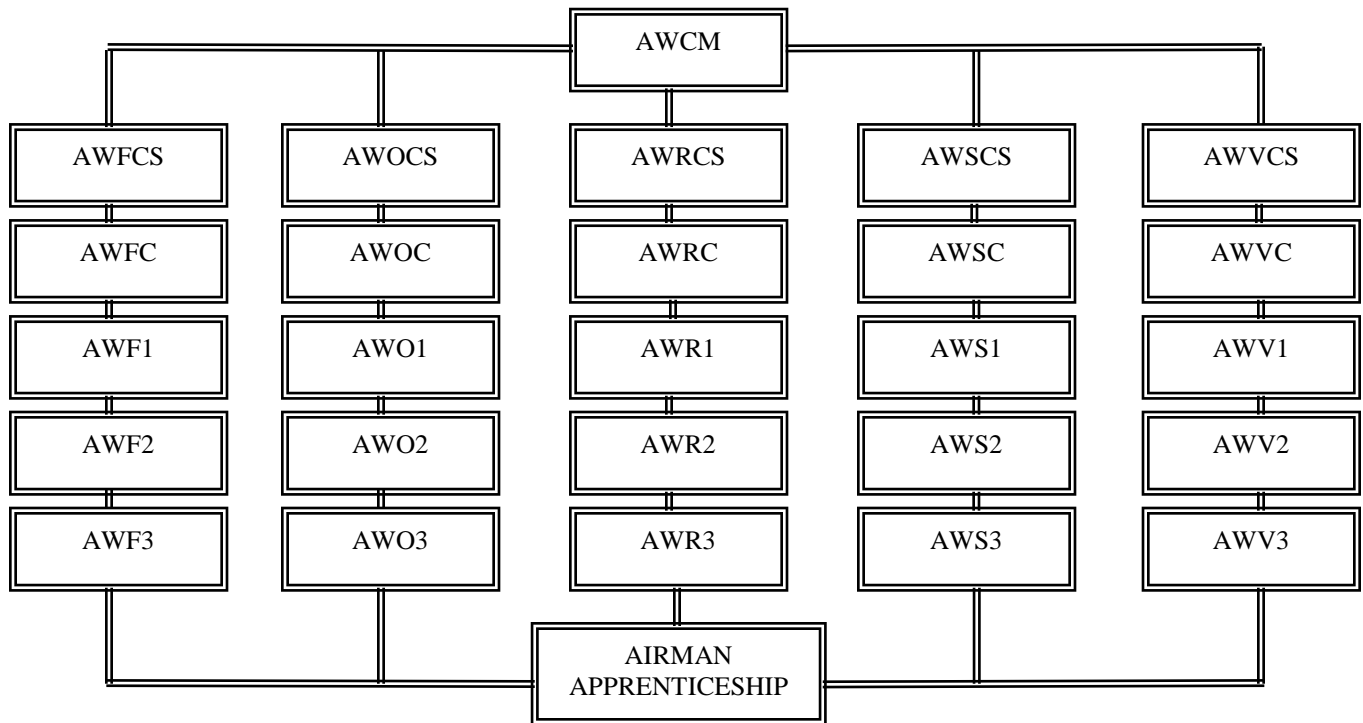


SCOPE OF RATING

Naval Aircrewmens Mechanical (AWF) are members of a fixed wing integrated tactical crew aboard C-2, C-12, C-20, C-26, C-37, C-40, C-130, E-6, and P-3 aircraft; perform primary in-flight and ground duties as aircraft Flight Engineer/Crew Chief, Loadmaster/Second Loadmaster, Reel Operator, and Aircrew Readiness Manager; perform aircraft maintenance, Weight and Balance (W&B) calculations, and aircraft systems rigging, Aircrew administration, Flight/Ground training, cargo movement, Medical Evacuations (MEDEVAC), passenger transport, small arms, and Joint Special Warfare operations by using Unmanned Aerial Vehicles (UAV); contribute directly to operations for the purposes of attaining and maintaining the squadron's aircrew qualifications and certifications; and are knowledgeable of all aircraft systems, passenger and cargo handling, safety procedures and equipment, federal and military regulations for passenger transport, emergency procedures, and aircraft equipment.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) in Chapter 12.

GENERAL INFORMATION CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Air Warfare Systems Engineer****Job Code****001595****Job Family**

Military Specific

NOC

TBD

Short Title (30 Characters)

AIR WARFARE SYSTEMS ENGINEER

Short Title (14 Characters)

NAC AW SYS ENG

Pay Plan

ENLISTED

Career Field

AWF

Other Relationships and Rules

NECs may include 7836, 8201, 8202, 8206, 8208, 8209, 8210, 8220, 8227, 8235, 8241, 8245, 8250, 8251, 8252, 8278, 8279, and 8289

Job Description

Air Warfare Systems Engineers are members of fixed wing integrated tactical crews aboard C-2, C-26, C-130, C-40, P-3, E-6 Gulfstream aircraft, or Tactical Operations Center/Mobile Tactical Operations Center (TOC/MTOC); perform primary in-flight and ground duties as aircraft Flight Engineer/Crew Chief, Loadmaster/Second Loadmaster, and Reel Operator; perform maintenance, weight and balance (W&B), and rigging; perform aircrew administration, flight/ground training, internal/external cargo movement, Medical Evacuations (MEDEVAC), and passenger transport; conduct small arms and Naval Special Warfare (NSW) operations by using Unmanned Aerial Vehicles (UAV); perform aircrew duties that contribute directly to aircrew operations, training, and administration for the purposes of attaining and maintaining squadron aircrew qualifications and certifications; and are knowledgeable of all aircraft systems, passenger handling, safety procedures and equipment, federal and military regulations for passenger transport, emergency procedures, and aircraft equipment. Air Warfare Systems Engineers must be able to obtain a final secret security clearance and be able to obtain higher security clearance as required.

DoD Relationship**Group Title**

Air Crew, General

DoD Code

105000

O*NET Relationship**Occupation Title**

Air Crew Members

SOC Code

55-3011.00

Job Family

Military Specific

Skills*Operation and Control**Critical Thinking**Systems Analysis**Coordination**Quality Control Analysis**Judgment and Decision Making**Complex Problem Solving**Instructing**Operation Monitoring**Equipment Maintenance***Abilities***Written Comprehension**Deductive Reasoning**Near Vision**Problem Sensitivity**Originality**Control Precision**Manual Dexterity**Multi-limb Coordination**Written Expression**Wrist-Finger Speed***AIRCRAFT SYSTEM OPERATIONS****Paygrade****Task Type****Task Statements**

E4

CORE

Adjust aircraft power settings

E4

NON-CORE

Adjust antenna reel length

E4

NON-CORE

Align Inertial Navigation Systems (INS)

E4

CORE

Assign aircraft ditching stations

E4

CORE

Calculate fuel requirements

E4

NON-CORE

Communicate with cargo-loading hand-signals

E4

CORE

Compute aircraft load limitations

E4

CORE

Compute aircraft Weight and Balances (W&B)

E4

CORE

Compute take off, landing, and in-flight performance

E5

CORE

Conduct Functional Check Flight (FCF)

E4

CORE

Configure aircraft for cargo operations

E4

NON-CORE

Initialize Global Positioning Satellite (GPS) equipment

E4

NON-CORE

Jettison cargo

E4	CORE	Maintain aircraft fuel load balance
E4	CORE	Maintain aircraft pressurization
E4	CORE	Maintain environmental control systems
E4	CORE	Monitor aircraft electrical systems
E4	CORE	Operate aircraft engines
E4	CORE	Operate aircraft hydraulic systems
E4	CORE	Operate aircraft pneumatic systems
E4	NON-CORE	Operate anti-icing and de-icing systems
E4	NON-CORE	Operate liquid cooling systems
E4	CORE	Operate propeller systems
E4	CORE	Perform emergency procedures for landing gear systems
E4	NON-CORE	Perform expeditious cargo offload

AIRCREW ADMINISTRATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Administer Naval Air Training and Operating Procedures Standardization (NATOPS) programs
E4	CORE	Record individual flight time summaries

AIRCREW DUTIES

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Analyze monthly reports
E4	CORE	Brief passengers on safety procedures
E4	CORE	Conduct aircraft system testing
E4	CORE	Control Auxiliary Power Units (APU)
E4	CORE	Inspect aircraft and personal survival equipment
E4	NON-CORE	Inspect Search And Rescue (SAR) equipment
E4	CORE	Inspect small arms
E4	CORE	Operate emergency equipment
E4	CORE	Operate radios and Internal Communication Systems (ICS)
E4	CORE	Operate small arms
E4	CORE	Perform aircraft emergency procedures
E4	CORE	Perform aircraft ground handling operations
E4	CORE	Perform Cardio-Pulmonary Resuscitation (CPR) and first aid
E4	NON-CORE	Perform Emergency Destruction Plan (EDP) procedures
E4	NON-CORE	Perform emergency Medical Evacuations (MEDVAC)
E4	CORE	Perform in-flight status system checks
E4	NON-CORE	Perform long cord procedures
E4	CORE	Perform pre and post flight aircraft inspections
E4	CORE	Report visual contacts
E4	CORE	Restrain cargo and equipment
E4	CORE	Supervise aircraft towing and pushback operations

AIRCREW TRAINING

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Administer aircrew training programs
E5	CORE	Conduct Naval Air Training and Operating Procedures Standardization (NATOPS) flight and ground training
E5	NON-CORE	Conduct warfare training exercises
E6	CORE	Develop Naval Air Training and Operating Procedures Standardization (NATOPS) training materials
E5	CORE	Develop trainer and simulator scenarios
E5	CORE	Evaluate aircrew qualification and readiness programs
E5	CORE	Facilitate crew resource management programs
E5	CORE	Operate Weapons Systems Trainer (WST) or Operational Flight Trainer (OFT)
E5	CORE	Update aircrew course curriculum

MAINTENANCE ADMINISTRATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Brief maintenance operations (maintenance control and work center)
E6	CORE	Conduct Functional Flight Check (FCF) briefs and debriefs
E6	CORE	Conduct maintenance meetings and briefs
E4	CORE	Document aircraft maintenance
E7	CORE	Manage cannibalization actions
E6	CORE	Manage scheduled and unscheduled maintenance
E5	CORE	Manage workload reports
E7	CORE	Manage X-RAY reports
E7	NON-CORE	Monitor aircraft records for government compliance
E4	CORE	Process maintenance actions with Optimized Organizational Maintenance Activity Naval Aviation Logistics Command Managed Information System (OOMA NALCOMIS)
E7	CORE	Release aircraft safe for flight
E4	CORE	Review monthly maintenance plans
E7	CORE	Schedule aircraft for maintenance
E7	CORE	Schedule aircraft for phase/Planned Maintenance Intervals (PMI)
E7	CORE	Schedule aircraft inspections
E6	CORE	Screen Visual Information Display System/Maintenance Action Forms (VIDS/MAF)
E5	CORE	Supervise scheduled and unscheduled maintenance
E7	CORE	Verify aircraft logbooks
E6	CORE	Verify Technical Directive (TD) compliance

MAINTENANCE SUPPORT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Document aircraft discrepancies
E4	CORE	Evaluate aircraft ground performance
E4	CORE	Inspect aircraft and aircraft components for corrosion
E4	CORE	Inventory tools
E4	CORE	Maintain air conditioning systems
E4	NON-CORE	Maintain air refueling systems
E4	CORE	Maintain aircraft flight databases
E4	CORE	Maintain aircraft hydraulic systems
E4	CORE	Maintain aircraft ice control systems
E4	CORE	Maintain automatic flight control systems
E4	NON-CORE	Maintain extended range fuel tanks
E4	CORE	Maintain flight control systems
E4	CORE	Maintain landing gear assemblies
E4	CORE	Maintain navigation systems
E4	CORE	Maintain pneumatic systems
E4	CORE	Maintain pressurization systems
E5	CORE	Manage Naval Aviation Maintenance Programs (NAMP)
E6	CORE	Monitor Naval Aviation Maintenance Programs (NAMP)
E4	CORE	Operate Support Equipment (SE)
E4	CORE	Perform aircraft conditional inspections
E4	CORE	Perform aircraft daily inspections
E4	CORE	Perform aircraft servicing procedures
E4	CORE	Perform aircraft special inspections
E4	CORE	Perform aircraft turnaround inspections
E5	NON-CORE	Perform certification inspections on aviation combat systems
E4	CORE	Perform corrosion prevention procedures
E4	CORE	Perform preservation and depreservation procedures
E5	CORE	Perform Quality Assurance (QA) inspections
E4	CORE	Perform Support Equipment (SE) inspections (daily, preoperational, etc.)
E6	CORE	Review Maintenance Data Reports (MDR)
E4	CORE	Treat aircraft corrosion
E5	CORE	Update Monthly Maintenance Plans (MMP)

OPERATIONS AND LOGISTICS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Conduct air logistics training
E4	NON-CORE	Coordinate cargo transfers
E4	CORE	Coordinate flight packet requirements
E5	CORE	Document logistics flight records

E4	CORE	Perform flight and mission planning
E4	NON-CORE	Perform pre and post deployment procedures
E6	NON-CORE	Prepare country clearance messages
E5	CORE	Prepare flight hour reports
E5	CORE	Prepare flight schedules
E5	CORE	Submit airlift requests
E5	NON-CORE	Supervise alert aircraft procedures

SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct Naval Special Warfare (NSW) training
E4	CORE	Conduct Night Vision Device (NVD) operations
E5	NON-CORE	Configure aircraft for Special Warfare Operations (SPECOPS)
E7	NON-CORE	Coordinate Naval Special Warfare (NSW) operations
E5	NON-CORE	Maintain Unmanned Aerial Vehicles (UAV)
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) camera systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) electrical systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) fuel systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) navigation systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) radar systems
E5	NON-CORE	Operate Unmanned Aerial Vehicle (UAV) radio systems
E5	NON-CORE	Perform Naval Special Warfare (NSW) operations
E5	NON-CORE	Perform Unmanned Aerial Vehicle (UAV) pre and post-flight inspections
E5	NON-CORE	Pilot Unmanned Aerial Vehicles (UAV)
E6	NON-CORE	Plan Naval Special Warfare (NSW) operations

Job Title**Aircrew Readiness Manager (Mechanical)****Job Code****002539****Job Family**

Transportation and Material Moving

NOC

TBD

Short Title (30 Characters)

ACREW READINESS MGR MECH

Short Title (14 Characters)

ARM (MECH)

Pay Plan

ENLISTED

Career Field

AWF

Other Relationships and Rules

Not Applicable

Job Description

Aircrew Readiness Managers (Mechanical) are crucial and integral members of staffs, operational commands, and squadrons; coordinate the operational, administrative, and aircrew scheduling functions; administer and manage training programs and resources for naval aircrew, manage standardization of aircrew training programs to enhance proficiency and readiness, and coordinate all aspects of aircrew training; administer and direct the Naval Air Training and Operating Procedures Standardization (NATOPS) and Search and Rescue (SAR) programs; administer and direct tactics, training and readiness, ordnance and weapons, and aircrew training. As program managers they analyze training resource requirements, review and approve contract options for new training devices and programs, develop and revise curriculum, incorporate and initiate new aircrew training programs, manage student quotas, qualifications and certifications, and coordinate aircrew physical fitness and health program initiatives.

DoD Relationship**Group Title**

Air Crew, General

DoD Code

105000

O*NET Relationship**Occupation Title**Airfield Operations
Specialists**SOC Code**

53-2022.00

Job FamilyTransportation and Material
Moving**Skills***Critical Thinking**Instructing**Complex Problem Solving**Coordination**Judgment and Decision Making**Monitoring**Writing**Management of Material Resources**Quality Control Analysis**Learning Strategies***Abilities***Deductive Reasoning**Written Comprehension**Originality**Problem Sensitivity**Control Precision**Wrist-Finger Speed**Inductive Reasoning**Mathematical Reasoning**Oral Comprehension**Oral Expression***AIRCREW ADMINISTRATION****Paygrade**

E5

Task Type

CORE

Task Statements

Administer Naval Air Training and Operating Procedures Standardization (NATOPS) programs

E7

CORE

Conduct flight order audit boards

E6

CORE

Coordinate Planning Board For Training (PBFT) meetings

E4

CORE

Record individual flight time summaries

E7

CORE

Verify training and readiness matrices

AIRCREW DUTIES**Paygrade**

E6

Task Type

CORE

Task Statements

Analyze monthly reports

E7

CORE

Define aircrew production requirements

E4

CORE

Perform Cardio-Pulmonary Resuscitation (CPR) and first aid

AIRCREW TRAINING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Administer aircrew training programs
E7	NON-CORE	Brief fleet aviation training requirements to upper echelon
E5	CORE	Conduct Naval Air Training and Operating Procedures Standardization (NATOPS) flight and ground training
E6	CORE	Develop Naval Air Training and Operating Procedures Standardization (NATOPS) training materials
E5	CORE	Develop trainer and simulator scenarios
E5	CORE	Evaluate aircrew qualification and readiness programs
E5	CORE	Facilitate crew resource management programs
E5	CORE	Update aircrew course curriculum

OPERATIONS AND LOGISTICS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Brief fleet acquisition programs
E4	NON-CORE	Conduct air logistics training
E7	CORE	Coordinate aircraft availability for long and short range planning
E6	NON-CORE	Coordinate Operating Areas (OPAREA) schedules with external agencies
E7	NON-CORE	Coordinate tactical exercises
E7	NON-CORE	Coordinate training systems acquisition contracts
E6	NON-CORE	Determine aircrew readiness requirements for individuals and crews
E6	CORE	Develop aircrew mission briefs
E5	CORE	Document logistics flight records
E7	NON-CORE	Manage Operational Target (OPTAR) budgets
E4	CORE	Perform flight and mission planning
E6	NON-CORE	Prepare country clearance messages
E5	CORE	Prepare flight hour reports
E5	CORE	Prepare flight schedules
E7	CORE	Process temporary flight order requests
E5	CORE	Report aircraft mission capability status
E5	CORE	Submit airlift requests
E7	CORE	Submit logistics requests
E5	NON-CORE	Supervise alert aircraft procedures

SPECIAL WARFARE AND UNMANNED AERIAL VEHICLE (UAV) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Plan Night Vision Device (NVD) operations